QC ABSTRACT

NAME OF WORK: Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	RCC(M25)	Compressive Strength(7days and 28days)	5 sets /50-100 cum	55.4	10	10
8	RCC(M25)	Compressive Strength(7days and 28days)	1 set /1-5 cum	5.28	2	2

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.

9	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-28-31** **Date: 12-01-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No 04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri U Ramesh, No 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R T Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4.5) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-03-28-31** **Date: 07-02-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No.04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4.5) 1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	10-01-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SL.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-28-31** **Date: 12-01-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	09-01-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-28-31** **Date: 12-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.49	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.20	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-03-28-31** **Date: 11-01-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer Reference	:	BBMP/EETNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-01-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-03-28-31** **Date: 11-01-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-28-31**

Date: 11-01-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-03-28-31**
		Date: 11-01-23
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No 04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri U Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/TNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2019
Date of test	:	10-01-23

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/01/2023

Lab ID	:	CP-2023-03-28-31
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-23
Customer ID	:	Sump Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	23/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M20	16/01/2023	23/01/2023	149.82 X 149.46 X 149.03	22393	8.705	523.9	23.4	22.8
2	Sump Concrete	M20	16/01/2023	23/01/2023	149.67 X 149.20 X 149.39	22330	9.069	491.6	22.0	
3	Sump Concrete	M20	16/01/2023	23/01/2023	151.82 X 149.28 X 150.84	22664	8.386	520.0	22.9	

* The results obtained are satisfactory as per standard requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/02/2023

Lab ID	:	CP-2023-03-28-31
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division
Agency	:	Sri U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EE/TNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-23
Customer ID	:	Sump Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M20	16/01/2023	13/02/2023	149.65 X 151.95 X 149.61	22738	9.070	633.3	27.9	27.4
2	Sump Concrete	M20	16/01/2023	13/02/2023	150.09 X 149.27 X 149.95	22403	8.827	587.2	26.2	
3	Sump Concrete	M20	16/01/2023	13/02/2023	151.53 X 151.17 X 151.60	22908	8.833	646.2	28.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 23/01/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division
Agency	:	Sri U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-23
Customer ID	:	Sump Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Sump Concrete	M20	16/01/2023	23/01/2023	150.75 X 151.79 X 151.99	22882	8.686	539.6	23.6	22.8
2	Sump Concrete	M20	16/01/2023	23/01/2023	150.96 X 151.57 X 149.96	22880	8.177	518.9	22.7	
3	Sump Concrete	M20	16/01/2023	23/01/2023	149.14 X 150.90 X 150.31	22506	8.903	499.0	22.2	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 19/01/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/01/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	12/01/2023	19/01/2023	151.99 X 151.17 X 149.72	22976	8.105	548.3	23.9	22.9
2	Footing Concrete	M20	12/01/2023	19/01/2023	149.03 X 149.29 X 150.66	22249	8.770	496.0	22.3	
3	Footing Concrete	M20	12/01/2023	19/01/2023	151.57 X 149.75 X 151.02	22696	8.853	511.5	22.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 09/02/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No 04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri U Ramesh, No 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R T Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Footing Concrete	M20	12/01/2023	09/02/2023	150.90 X 149.98 X 151.33	22632	8.790	611.1	27.0	27.5
2	Footing Concrete	M20	12/01/2023	09/02/2023	151.37 X 149.13 X 151.41	22574	8.925	599.3	26.5	
3	Footing Concrete	M20	12/01/2023	09/02/2023	150.74 X 149.46 X 151.57	22530	8.481	650.6	28.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 19/01/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-01-23
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	19/01/2023

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	12/01/2023	19/01/2023	149.03 X 151.41 X 150.81	22565	8.241	538.2	23.9	23.0
2	Footing Concrete	M20	12/01/2023	19/01/2023	151.21 X 150.76 X 152.00	22796	8.722	520.7	22.8	
3	Footing Concrete	M20	12/01/2023	19/01/2023	150.43 X 149.14 X 151.08	22434	8.888	502.4	22.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 28/01/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Customer ID	:	Plinth beam for compund Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5
Date of test	:	28/01/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth beam for compund Wall	M20	21/01/2023	28/01/2023	151.70 X 151.67 X 151.64	23009	8.948	540.1	23.5	22.6
2	Plinth beam for compund Wall	M20	21/01/2023	28/01/2023	151.51 X 151.58 X 149.12	22965	9.047	510.7	22.2	
3	Plinth beam for compund Wall	M20	21/01/2023	28/01/2023	150.93 X 149.38 X 149.88	22546	8.106	496.9	22.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 18/02/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No.04 Yelahnak Satellite Town Sub Division
Agency	:	Sri.U.Ramesh, No.12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EE.TNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-23
Customer ID	:	Plinth beam for compund Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5
Date of test	:	18/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth beam for compund Wall	M20	21/01/2023	18/02/2023	149.02 X 150.11 X 150.61	22369	8.573	612.2	27.4	27.5
2	Plinth beam for compund Wall	M20	21/01/2023	18/02/2023	151.46 X 149.22 X 150.18	22602	9.059	607.4	26.9	
3	Plinth beam for compund Wall	M20	21/01/2023	18/02/2023	149.89 X 150.44 X 151.17	22549	8.175	636.3	28.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-03-28-31** **Date: 04/02/2023**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-01-23
Customer ID	:	Column Above Ground Level
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Column Above Ground Level	M20	28/01/2023	04/02/2023	149.98 X 149.22 X 151.53	22379	8.327	527.5	23.6	22.5
2	Column Above Ground Level	M20	28/01/2023	04/02/2023	150.99 X 150.93 X 150.09	22789	8.972	501.9	22.0	
3	Column Above Ground Level	M20	28/01/2023	04/02/2023	151.77 X 151.29 X 149.51	22961	8.306	505.3	22.0	

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2023-03-28-31** **Date: 06-02-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T.Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-23
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-02-23
Total weight taken	:	1000 grams

SLno	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2023-03-28-31** **Date: 07-02-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No:04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri U.Ramesh, No:12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK.D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-23
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-02-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	12	47	4.7	95.3	95-100
4	1.18 mm	50	97	9.7	90.3	90-100
5	600 micron	100	197	19.7	80.3	80-100
6	300 micron	215	412	41.2	58.8	20-65
7	150 micron	500	912	91.2	8.8	0-15
8	Pan	88	1000	100	0	---

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-03-28-31** **Date: 07-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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ಯಲಹಂಕ-ಉಪನಗರ ಉಪವಿಭಾಗ,
ಕೆ.ಐ.ಎ.ಡಿ.ಬಿ. ಬೆಂಗಳೂರು-106

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2023-03-28-31** **Date: 30-01-23**
Customer	:	Assistant Executive Engineer, Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahnaka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of compound wall and drilling of borewell at Attur Government School building in Ward No 04 Yelahnak Satellite Town Sub Division.
Agency	:	Sri.U.Ramesh, No 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar, Bangalore-560032
Customer's Reference	:	BBMP/EETNK D/EPMT-12/W.O/52/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-01-23
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS 2185 (Part 1) 2005(RA 2020) Concrete Masonry Specification Part 1 Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-01-23

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	405	152	200	12312	21.826	1772.8	1906.8	Not less than 1800Kg/m^3
2	404	150	199	12059	23.749	1969.3		
3	399	148	202	11929	23.599	1978.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	24.91	23.69	4.89	4.25	Shall not be more than 10% by mass
2	25.57	24.48	4.28		
3	24.44	23.57	3.59		

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Lab ID : CP-2023-03-28-31

Date: 30-01-23

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	149	59730	237.8	4.0	4.3
2	400	152	60846	265.5	4.4	
3	401	151	60690	257.0	4.2	
4	402	150	60351	266.1	4.4	
5	400	152	60771	267.4	4.4	
6	399	149	59670	250.3	4.2	
7	403	150	60458	253.4	4.2	
8	402	150	60386	261.5	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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